

NUCEM JOINT GROUT

High Strength Cementitious Hydraulic-Bonding Joint Grout Fluid

Description

Nucem Joint Grout is a high strength, low modulus, cementitious, hydraulic-bonding joint grout fluid. It is typically used to fill joints in concrete, stone and granite paving. The system is suitable for use on pedestrian or vehicular trafficked areas and complies with Highways Agency Specification for Highway Works Clause 1700.

Nucem Joint Grout is based on non-reactive aggregate, low alkaline, shrinkage compensated Portland Cements with selected admixtures. The material is polymer-modified and has excellent adhesion to a variety of materials.

Advantages

- Very low Modulus of Elasticity in flexure.
- Excellent adhesion qualities.
- Controlled mixing and application.
- Non-shrink.
- Suitable for pedestrian and carriageway use.
- Long service life.

Surface Preparation

All substrates should be sound, stable, clean and free from laitence, oil and grease.

Technical Information

Modulus of Elasticity in Flexure	
BS6319 Part 3	<12 kN/mm ²
Bond Strength BS1881 Pt 207 Clause 8 1992	1.8 N/mm ²
Compressive Strength BS 1881 Pt 116	
2 days	16 N/mm ²
7 days	30 N/mm ²
28 days	36 N/mm ²
Density	>2000 kg/m ³
Shrinkage (Coutinho Ring Test)	Specimen did not crack
Yield per 27.5 Kg Composite Pack	13.0 litres (0.013 m ³)
Freeze/Thaw Resistance	Good to Excellent
Resistance to de-icing salts	Good to Excellent
Application Temperature Range	5°C - 35°C
Cure Before Stress (Foot Traffic)	48 hours
Minimum Joint Width	6mm (detailed by specification)

Typical strengths shown for material laboratory tested at 20°C with full amount of gauging liquid

Priming

It is not necessary to prime the sides of elements, however, porous elements should be dampened with clean water immediately prior to joint filling. Ensure sides of elements are free from contamination.

Mixing

It is recommended that for large quantities a forced action pan mixer is used for mixing Nucem Joint Grout to ensure that the material is thoroughly mixed and fully hydrated. For smaller quantities it is possible to use a heavy duty slow speed drill and spiral paddle mixer. Wet out and discard water from the mixing drum prior to use or when the drum is dry. Pour approximately $\frac{3}{4}$ of the gauging liquid provided into the rotating drum and gradually add the entire amount of powder, before adding the remaining $\frac{1}{4}$ of gauging liquid. Do not add extra gauging liquid or water. Mixing time 1-3 minutes. Multiple bag mixing is permissible.

Application Instructions

Following placement of pavers or setts, grout should be applied into joints the next day and certainly within 48 hours, this will limit the risk of dirt contaminating the joint. Decant the mixed grout from the mixing vessel into a pail and allow de-airing for a few minutes. Using a suitable watering can, or other type of applicator, with a narrow delivery outlet to pour directly into joints. For application by pump contact Nufins Technical Department. Care must be taken to remove grout from surfaces as soon as possible before hardening, prior treatment of sett and paver surfaces with Disbond sealer will assist removal. Ensure that the grout fills the joint to its full depth. After use clean tools and equipment immediately with clean water.

Storage

Materials should be stored in dry, frost free conditions. Shelf life 6 months for unopened packs when stored correctly.

Packaging

Nucem Joint Grout is available in 27.5 kg bags (yield 13 litres approximately).

Health & Safety

Nucem Joint Grout does not present any undue hazard and is non-toxic. However, as it is alkaline, gloves should be worn and any material should be washed from the skin and eyes with clean water before it dries.

Limitations

We do not recommend flow-application, using a squeegee to move material into joints, grout that coats stone surfaces should be removed as soon as possible before hardening as it is difficult to clean off. Whilst the material is wet, excessive rain, or excessive water application during cleaning, may cause the surface and joint grout to stain white. Protect newly laid areas from extreme weather and frost. Contact Nufins Technical Department for application below 5°C.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA, United Kingdom.
TEL: +44 (0) 191 416 8360 FAX: +44 (0) 191 415 5966 W: www.nufins.com E: info@usluk.com

The information and/or specifications contained herein or in our literature or given by Nufins, its employees, distributors, agents or representatives with regard to its product or their use or application are given in good faith, but no liability is accepted for any loss or damage (including direct or consequential loss or loss of profits) from the use of products because Nufins has no control over how its products are used and applied.